CLAIMS

What is claimed is:

Sub A15

1. A method comprising:

enabling a special programming mode of a memory by entering a special programming access code in a state controller, wherein the memory includes automation circuitry for program verification and wherein the special programming mode disables internal program verification by the memory;

programming a plurality of words into the memory without the memory performing internal program verification; and

exiting the special programming mode of the memory.

2. The method of Claim 1, further comprising verifying the plurality of words programmed into the memory with a verification processor by resending the plurality of words previously sent into the memory.

3. The method of Claim 2, wherein the verification processor is an external host processor.

4. The method of Claim 2, further comprising enabling internal program verification by the memory and wherein the verification processor is the memory internal program verification processor.

5. The method of Claim 2, wherein verifying further includes:

determining if all of the words in the plurality of words are verified;

if any one of the plurality of words does not verify, then repeat the programming of the entire plurality of words and repeat the verification; and

if all of the plurality of words verify, then exiting the special programming mode of the memory.

6. The method of Claim 2, wherein verifying further includes:

determining if all of the words in the plurality of words are verified;

if any one of the plurality of words does not verify, then repeat the programming of the one word that did not verify and repeat the verification; and

if all of the plurality of words verify, then exiting the special programming mode of the memory.

7. The method of Claim 1, wherein exiting the special programming mode of the memory permanently disables the special programming user interface.

8. The method of Claim 1, wherein exiting the special programming mode of the memory enables internal program verification by the memory.

9. The method of Claim 1, wherein programming the plurality of words into the memory further comprises using only a single programming pulse for each bit of each word of the plurality of words.

10. The method of Claim 1, wherein the programming the plurality of words into the memory without the memory performing internal program verification continues until a programming ending condition is met.

11. The method of Claim 10, wherein the programming ending condition is a pre-selected time.

12. The method of Claim 10, wherein the programming ending condition is an ending address.

13. An apparatus comprising a memory comprising:

an automation circuitry to perform internal program verification unless disabled;

a special programming mode circuitry to disable the internal program verification by the memory when the special programming mode circuitry is enabled; and

a host processor including:

a circuit to send to the memory a plurality of words to be programmed into the memory without the memory performing internal program verification; and

a circuit to exit the special programming mode of the memory.

14. The apparatus of Claim 13, wherein the host processor further includes a circuit to verify the plurality of words programmed into the memory including a verification processor.

15. The apparatus of Claim 14, wherein the verification processor is an external host processor.

16. The apparatus of Claim 14, further including enabling internal program verification by the memory and wherein the verification processor is the memory internal program verification processor.

17. The apparatus of Claim 14, wherein the verifying further includes:

circuitry to determine if all of the words in the plurality of words are verified including:

a second memory coupled to the host processor; and

circuitry for comparing the plurality of words stored in the second memory with a plurality of words read from the memory by the host processor.

18. The apparatus of Claim 17, further including:

a circuit to reprogram the entire plurality of words if any one of the plurality of words does not verify.

19. The apparatus of Claim 17, further including:

a circuit one word that did not verify.

20. The apparatus of Claim 13, wherein the circuit to exit the special programming mode of the memory disables the special programming mode circuitry.

21. The apparatus of Claim 13, wherein the circuit to exit the special programming mode of the memory enables internal program verification by the memory.

22. The apparatus of Claim 13, wherein the special programming mode circuitry is disabled when a programming ending condition is met.

23. The apparatus of Claim 22, wherein the programming ending condition is a pre-selected time.

24. The apparatus of Claim 22, wherein the programming ending condition is an ending address.